

Water-Data Report 2008

01022295 WEST BRANCH BEAR BROOK NEAR BEDDINGTON, ME

 Maine Coastal Basin
 Maine Coastal Subbasin

LOCATION.--Lat 44°51'32", long 68°06'22" referenced to North American Datum of 1983, Hancock County, ME, Hydrologic Unit 01050002, on left bank 600 ft upstream from confluence with the East Branch Bear Brook and 0.7 mi upstream from the mouth of Bear Brook at Bear Pond.

DRAINAGE AREA.--0.040 mi², Furnished by U.S. Environmental Protection Agency.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--

DISCHARGE: March 1988 to current year.

REVISED RECORDS.--WDR ME-89-1: Drainage area.

GAGE.--Water-stage recorder, crest-stage gage, and V-notch sharp-crested weir. Datum of gage is 912.72 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good, except for flows between 0.14 ft³/s and 0.050 ft³/s, which are fair, flows below 0.050 ft³/s, periods of ice effect, Dec. 2-18, 20, Dec. 31 to Jan. 7, Jan. 14-15, 20-29, Feb. 9-17, 21-22, periods of doubtful stage-discharge relation, Oct. 3-4, Oct. 29 to Nov. 2, May 3-19, 21-24, Sept. 3, and periods of no gage-height record, May 20, June 26, Sept. 17-19, which are poor. Satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16.4 ft³/s, Mar. 9, 1998, gage height, 6.75 ft; no flow, Aug. 1 and 2, 1991 Aug. 27 to Sept. 1, 1993, and Aug. 23-27, Aug. 29 to Sept. 10, and Sept. 12-14, 1999.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2.20 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov 4	0240	2.72	5.83
Feb 18	1425	3.20	5.88
Mar 9	0030	3.73	5.94
Apr 29	2120	5.06	6.06
Sept 7	0635	2.90	5.85
Sept 28	0705	*14.6	*6.62

Minimum discharge, 0.001 ft³/s, July 17, gage height, 5.03 ft.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES
[*e*, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.003	e0.034	0.11	e0.062	0.071	0.069	0.14	0.34	0.066	e0.013	0.14	0.007
2	0.003	e0.029	e0.086	e0.061	0.21	0.065	0.62	0.23	0.064	0.012	0.24	0.006
3	e0.003	0.42	e0.082	e0.056	0.15	0.060	0.28	e0.18	0.048	0.012	0.66	e0.005
4	e0.003	1.24	e0.078	e0.054	0.10	0.073	0.21	e0.16	0.090	0.013	0.56	0.005
5	0.003	0.24	e0.069	e0.052	0.087	0.16	0.19	e0.14	0.078	0.011	0.27	0.004
6	0.002	0.31	e0.064	e0.051	0.077	0.20	0.21	e0.12	0.058	0.010	0.14	0.016
7	0.003	0.40	e0.061	e0.062	0.069	0.14	0.27	e0.10	0.047	0.009	0.093	1.24
8	0.003	0.18	e0.060	0.19	0.063	0.58	0.35	e0.11	0.038	0.005	0.073	0.22
9	0.003	0.12	e0.056	0.82	e0.059	1.46	0.42	e0.10	0.029	0.004	0.079	0.15
10	0.003	0.097	e0.054	0.43	e0.056	0.32	0.54	e0.092	0.025	0.003	0.059	0.13
11	0.003	0.081	e0.052	0.33	e0.053	0.20	0.55	e0.080	0.024	0.002	0.052	0.073
12	0.065	0.072	e0.052	0.49	e0.049	0.15	0.89	e0.071	0.021	0.002	0.094	0.060
13	0.023	0.082	e0.048	0.23	e0.79	0.13	0.56	e0.063	0.017	0.002	0.088	0.068
14	0.012	0.075	e0.047	e0.16	e0.90	0.11	0.40	e0.055	0.015	0.002	0.055	0.068
15	0.009	0.072	e0.044	e0.12	e0.24	0.10	0.37	e0.048	0.014	0.002	0.038	0.10
16	0.008	0.56	e0.044	0.10	e0.15	0.093	0.40	e0.042	0.014	0.001	0.036	e0.10
17	0.007	0.28	e0.061	0.090	e0.13	0.087	0.43	e0.041	0.029	0.001	0.032	e0.059
18	0.007	0.15	e0.038	0.15	1.35	0.082	0.42	e0.048	0.025	0.001	0.024	e0.042
19	0.008	0.11	0.033	0.14	0.86	0.079	0.37	e0.045	0.024	0.003	0.038	e0.038
20	0.059	0.097	e0.032	e0.11	0.30	0.091	0.25	e0.038	0.024	0.002	0.036	0.035
21	0.027	0.086	0.031	e0.089	e0.18	0.083	0.19	e0.034	0.021	0.019	0.022	0.034
22	0.020	0.15	0.030	e0.081	e0.14	0.073	0.15	e0.041	0.017	0.007	0.018	0.028
23	0.017	0.16	0.044	e0.075	0.13	0.068	0.13	e0.054	0.018	0.005	0.016	0.027
24	0.015	0.12	0.83	e0.068	0.11	0.064	0.16	e0.040	0.017	0.017	0.015	0.023
25	0.013	0.097	0.26	e0.063	0.099	0.061	0.12	0.033	0.013	0.074	0.014	0.022
26	0.012	0.091	0.14	e0.058	0.090	0.064	0.10	0.029	e0.010	0.038	0.013	0.022
27	0.066	0.48	0.11	e0.054	0.087	0.067	0.094	0.026	0.009	0.018	0.011	0.24
28	0.16	0.22	0.087	e0.051	0.076	0.066	0.086	0.024	0.011	0.012	0.008	4.90
29	e0.082	0.16	0.081	e0.049	0.069	0.058	1.03	0.021	0.016	0.008	0.009	0.68
30	e0.048	0.14	0.072	0.087	---	0.057	1.08	0.019	0.013	0.005	0.010	0.26
31	e0.038	---	e0.066	0.093	---	0.059	---	0.047	---	0.005	0.008	---
Total	0.728	6.353	2.922	4.526	6.745	4.969	11.010	2.471	0.895	0.318	2.951	8.662
Mean	0.02	0.21	0.09	0.15	0.23	0.16	0.37	0.08	0.03	0.01	0.10	0.29
Max	0.16	1.24	0.83	0.82	1.35	1.46	1.08	0.34	0.090	0.074	0.66	4.90
Min	0.002	0.029	0.030	0.049	0.049	0.057	0.086	0.019	0.009	0.001	0.008	0.004
Cfsm	0.59	5.29	2.36	3.65	5.81	4.01	9.18	1.99	0.75	0.26	2.38	7.22
In.	0.68	5.91	2.72	4.21	6.27	4.62	10.24	2.30	0.83	0.30	2.74	8.06

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	0.10	0.17	0.15	0.12	0.09	0.19	0.26	0.15	0.07	0.03	0.02	0.03
Max	0.48	0.34	0.38	0.32	0.23	0.51	0.47	0.51	0.33	0.22	0.10	0.29
(WY)	(2006)	(2007)	(1994)	(1996)	(2008)	(1998)	(1993)	(1989)	(2006)	(1996)	(2008)	(2008)
Min	0.00	0.01	0.03	0.02	0.01	0.02	0.10	0.05	0.02	0.00	0.00	0.00
(WY)	(2002)	(2002)	(1990)	(1989)	(2004)	(2001)	(2006)	(2001)	(1988)	(1991)	(1993)	(2000)

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	Calendar Year 2007	Water Year 2008	Water Years 1988 - 2008	
Annual total	38.054	52.550		
Annual mean	0.10	0.14	0.12	
Highest annual mean			0.18	2006
Lowest annual mean			0.06	2001
Highest daily mean	2.45	Mar 17	4.90	Sep 28, 2008
Lowest daily mean	0.002	Sep 5	0.001	Jul 16, 1988
Annual seven-day minimum	0.003	Sep 21	0.002	Jul 12
Maximum peak flow			14.6	Sep 28
Maximum peak stage			6.62	Sep 28
Instantaneous low flow			0.001	Jul 17
Annual runoff (cfsm)	2.61	3.59	2.89	
Annual runoff (inches)	35.39	48.87	39.21	
10 percent exceeds	0.26	0.33	0.25	
50 percent exceeds	0.039	0.064	0.052	
90 percent exceeds	0.005	0.008	0.005	

